USER'S MANUAL

BV9976B

BLUETOOTH®-ENABLED | DVD/MP3/CD AM/FM RECEIVER

BOSS AUDIO SYSTEMS

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BLUETOOTH®-ENABLED

DVD/MP3/CD AM/FM RECEIVER

FEATURING MOTORIZED 7" (178mm) WIDESCREEN TOUCHSCREEN DIGITAL TFT MONITOR

BOSS AUDIO SYSTEMS

Precaution

THANK YOU FOR PURCHASING A BOSS AUDIO MULTIMEDIA PLAYER .

Before operating the unit, read this manual thoroughly and keep it handy for future reference .

To avoid injury or accident , read the following precautions before installing and operating the unit .

ON INSTALLATION

- DO NOT install any receiver in locations where;
  - it may obstruct the steering wheel and gearshift lever operations, as this may result in a traffic accident.
  - it may obstruct the operation of safety devices such as air bags, as this may result in a fatal accident.
  - it may obstruct visibility.
- DO NOT operate any receiver while manipulating the steering wheel, as this may result in a traffic accident.
- The driver must not watch the monitor while driving.
- IF THE DRIVER watches the monitor while driving, it may lead to carelessness and cause an accident.
- IF YOU NEED to operate the receive while driving, be sure to look ahead carefully or you may be involved in a traffic accident.
- IF THE PARKING BRAKE is not engaged.“ ParkingBrake” flashes on the monitor, and no playback picture will be shown.
  - This warning appears only when the parking brake wire is connected to the parking brake system built in the car (refer to the electric connection)

ABOUT THE LIQUID CRYSTAL DISPLAY (LCD) PANEL

Do not press on the LCD panel on the unit as doing so can distort the picture or cause a malfunction . The picture may become unclear , or the LCD panel may be damaged .

NOTES ON CLEANING

-Clean the LCD panel with a slightly damp soft cloth.

-Do not use solvents such as benzine, thinner, commercially available cleaners or antistatic spray .

-Do not use alcohol to clean the screen .

If your car was parked in a cold or hot place, the picture may not be clear . The monitor is not damaged . The picture will become clear the temperature in your car becomes normal .

Safety Information

CAUTION:

THIS DIGITAL VIDEO PLAYER IS A CLASS I LASER PRODUCT. HOWEVER THIS DIGITAL VIDEO PLAYER USES A VISIBLE/INVISIBLE LASER BEAM WHICH COULD CAUSE .

HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE DIGITAL VIDEO PLAYER CORRECTLY AS INSTRUCTED.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE ONLY THE RECOMMENDED ACCESSORIES.

THIS DEVICE IS INTENDED FOR CONTINUOUS OPERATION.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. Patents and other intellectual property rights owned by Macrovision Corporation and other rights owners.Use of this copyright protection technology must be authorized by Macro vision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

REGION MANAGEMENT INFORMATION:

This Digital Video Player is designed and manufactured to respond to the Region Management Information that is recorded on a Digital Video disc. If the Region number described on the Digital Video disc does not correspond to the Region number of this Digital Video Player, this Digital Video Player cannot play this disc.

Disc Note

Disc formats supported by this player

Digital Video	***Digital Video***	Audio and Video Disc size 12 cm
VCD	***VCD***	Audio and Video Disc size 12 cm
CD	***CD***	Audio Disc size 12 cm
MP3	***MP3***	Audio Disc size 12 cm

Discs which cannot be played with this player

- Digital Video-RAM
- CDV
- CDG

Handling and Cleaning

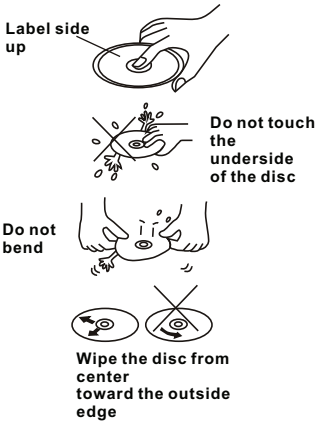
- Dirt, dust, scratches and warping disc will cause misoperation.
- Do not place stickers or make scratches on discs.
- Do not warp discs.
- A disc should always be kept in its case when not in use to prevent from damaging.
- Do not place discs in the following places:
  1.Direct sunlight
  2.Dirty, dusty and damp areas
  3.Near car heaters
  4.On the seats or dashboard

Disc Cleaning

Use a dry soft cloth to wipe the surface. If the disc is quite dirty, use a soft cloth slightly moistured with isopropyl (rubbing) alcohol. Never use solvents such as benzine, thinner or conventional record cleaners as they may mar the surface of the disc.

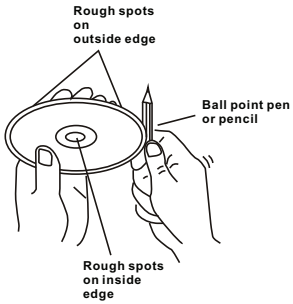
Note:

A disc may become somewhat scratched (although not enough to make it unusable) depending on your handle it and conditions in the usage environment. Note these scratches are not an indication of any problem with the player.



Preparing New Discs with Rough Spots

A new disc may have rough edges on its inside and outside edges. If a disc with rough edges is used, the proper setting will not be performed and the player will not play the disc. Therefore, remove the rough edges in advance by using a ball point pen or pencil as shown on the right. To remove the rough edges, press the side of the pen or pencil against the inside and outside edges of the disc.



Installation

NOTES:

Choose the mounting location where the unit will not interfere with the normal driving function of the driver.

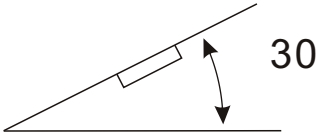
Before finally installing the unit, connect the wiring temporarily and make sure it is all connected up properly and the unit and the system work properly.

Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.

Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.

Install the unit where it does not get in the driver's way and cannot injure the passenger if there is a sudden stop, like an emergency stop.

If installation angle exceeds 30 from horizontal, the unit might not give its optimum performance.



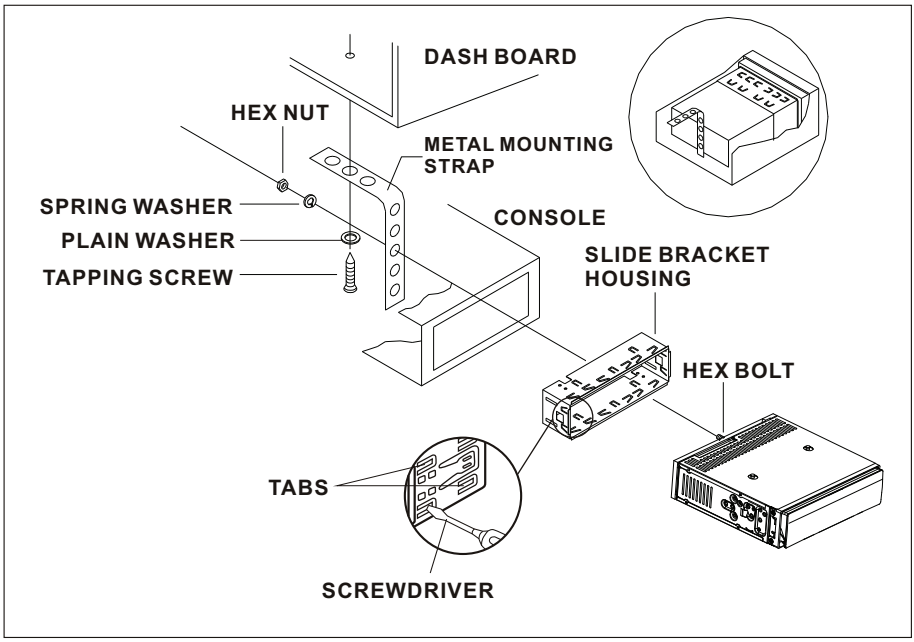
Avoid installing the unit where it would be subject to high temperature, such as from direct sunlight, or from hot air, from the heater, or where it would be subject to dust, dirt or excessive vibration.

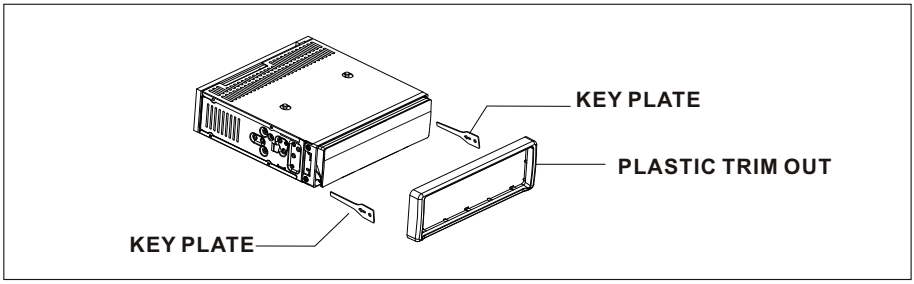
DIN FRONT/REAR-MOUNT

This unit can be properly installed either from "Front"(conventional DIN Front-mount) or "Rear"(DIN Rear-mount installation, utilizing threaded screw holes at the sides of the unit chassis). For details, refer to the following illustrated installation methods.

Installation

Installing the unit

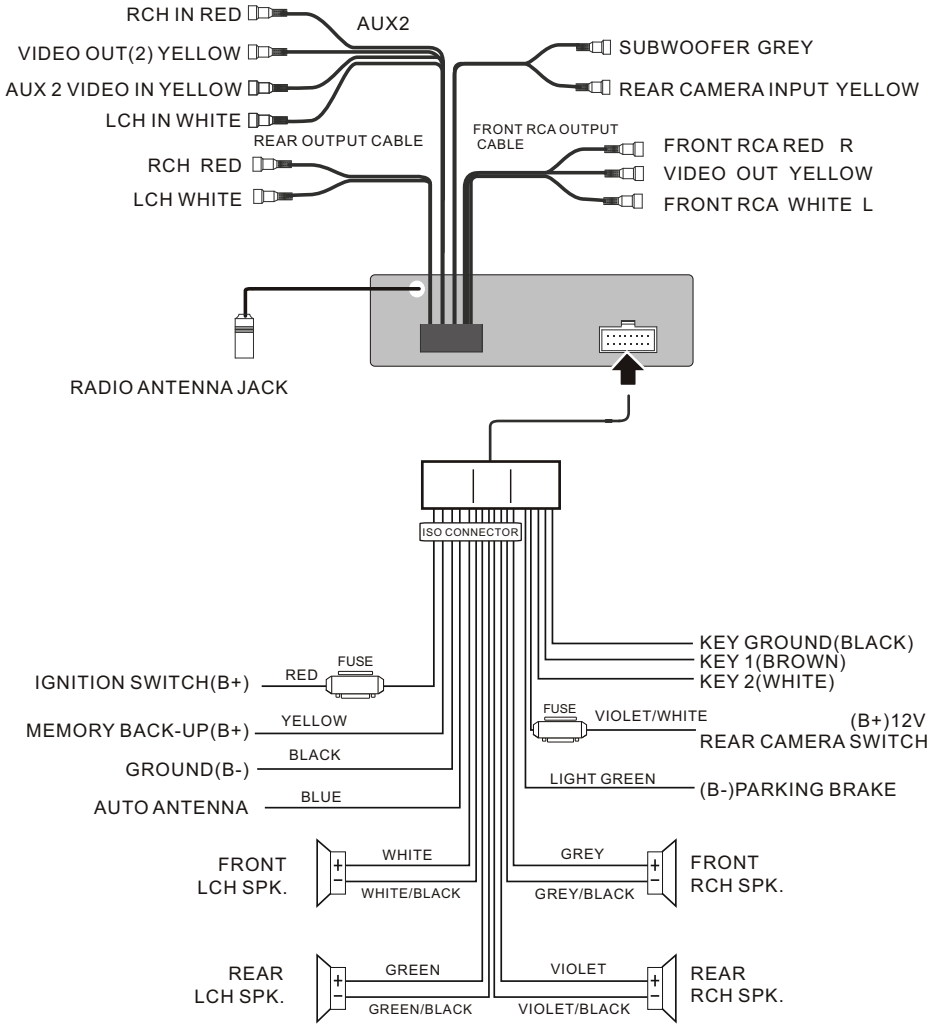




If you want to take the CHASSIS out of the SLIDE BRACKET HOUSING, first remove the PLASTIC COVER on both sides , then insert the two KEY PLATES into the left and the right sides of the chassis as illustrated above.

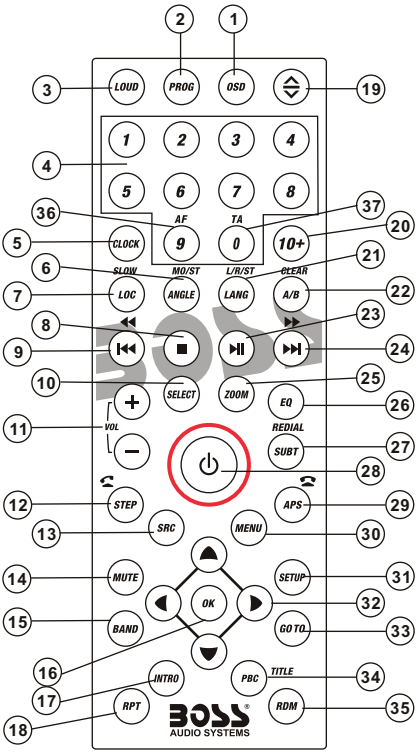
Electric Connection

WIRING CONNECTION



Note:
the ground connection cable (parking brake B-) must be connected in order for pictures to be played back to the monitor. If the cable has not been correctly connected, warning message appears on the monitor.

Remote Control



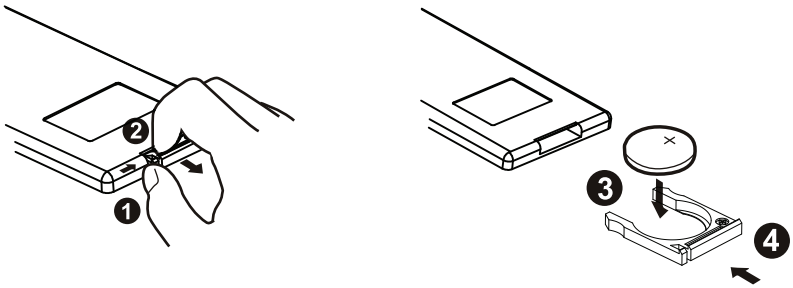
1. OSD BUTTON
2. PROG BUTTON
3. LOUD BUTTON
4. NUMBER(0~9)BUTTONS
5. CLOCK BUTTON
6. ANGLE/MO/ST BUTTON
7. LOC/SLOW BUTTON
8. STOP BUTTON
9. I<< BUTTON
10. SELECT BUTTON
11. VOLUME+/- BUTTONS
12. STEP/TEL BUTTON
13. SRC BUTTON
14. MUTE BUTTON
15. BAND BTTON
16. OK BUTTON
17. INT BUTTON
18. RPT BUTTON
19. ANG BUTTON
20. 10+ BUTTON
21. LANG/L/R/ST BUTTON
22. A-B/CLEAR BUTTON
23. >II BUTTON
24. >>I BUTTON
25. ZOOM BUTTON
26. EQ BUTTON
27. SUBT/REDIAL BUTTON
28. POWER BUTTON
29. APS/Hang Up BUTTON
30. MENU BUTTON
31. SETUP BUTTON
32. ◀/▼/▶/▲ BUTTON
33. GOTO BUTTON
34. PBC/TITLE BUTTON
35. RDM BUTTON
36. AF BUTTON
37. TA BUTTON

Remote Control

Preparing the Remote Control

Inserting the Battery

1.First push to inside as the direction indicated by the arrow (See ❶)And then Remove the battery holder as the direction indicated by the arrow (See ❷).
2.Replace the battery Set a new battery property with (+)side up as illustrated (See ❸).
3.Insert the battery holder. Push in the holder to the original position(See ❹).



Using the Remote Control

Face the remote control towards the player front face IR mark (remote control signal receiver).
Operation angle: About ±30 degree in each the direction of the front of the IR mark.

Note :

The lithium cell in the battery compartment of remote control has been secured for transport with a plastic . Before initial use please remove this plastic so that the remote control is ready for operation .

Basic Operation

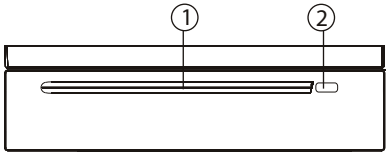
POWER ON/OFF

Touch the “OFF” ICON on screen to turn the unit off . Press the“ ⏻ ” onthe front panel to turn It on, press it again to turn off .

LOADING/EJECTING A DISC

Loading a Disc

1. Press the POWER (⏻) button on the front panel to turn the device on .
2. Insert the disc with printed side facing up into the disc slot (1) .
3. The player starts playback the disc automatically .

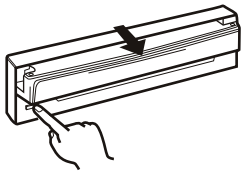


Ejecting a Disc

In disc mode, Press the ⏏ (2) button on the front panel to eject the disc .

OPEN/CLOSE MONITOR AND ANGLE ADJUSTMENT

- Press **OPEN** button on front panel, the monitor will draw out automatically .



OPEN/CLOSE button

FIG.1

When the monitor draws out to a certain location, it will turn upward automatically and stop at vertical position .

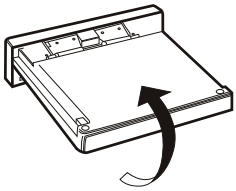


FIG.2

- Adjusting the viewing angle .
  When the monitor does not move, you long press ⇳ button on the panel to turn the monitor upward or downward at fine steps to get a desired viewing angle; short press that button (⇳) on remote is screen move back or out.

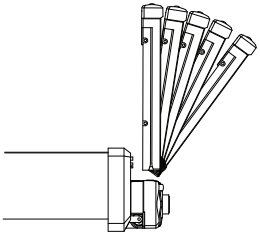


FIG.3

Do not rotate the monitor forcibly to avoid mechanical damage .

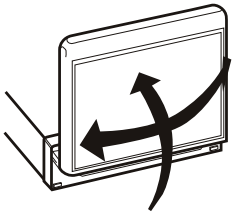


FIG.4

- Return the monitor to the central viewing position, then press OPEN button on the front panel , the monitor will turn downward automatically .

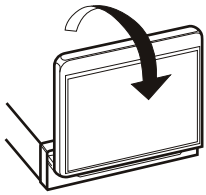


FIG.5

Basic Operation

- When the monitor turns downward to a certain angle, it will draw in .

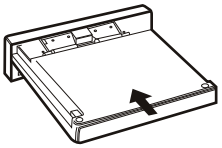
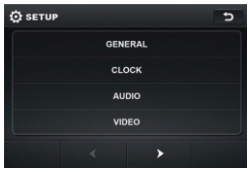


FIG.6

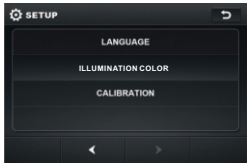
Main Menu Operation

In many modes, touch the icon or In DVD/VCD mode , touch the range to enter the main menu, the message like following as below.

1. POWER icon
   In any modes, touch the POWER icon to switch the unit off . The monitor will draw in automatically .
2. UP icon
   Touch this icon to adjust the angle of the monitor upward until your desired angle .
3. CLOSE icon
   Touch this icon to Close the monitor .
4. DOWN icon
   Touch this icon to adjust the angle of monitor downward until your desired angle .
5. EJECT icon
   Touch to allow for inserting or ejecting disc.
6. SETUP icon
   Touch to enter the SETTING mode, the message will display as follow :

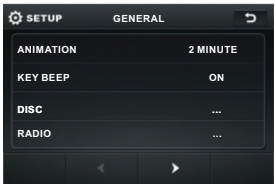


Setup interface 1

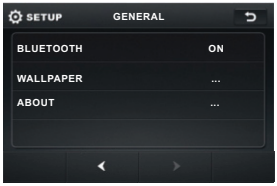


Setup interface 2

Touch the " " section on the setting menu, touch the " / " ranges to select the adjustment item,
Touch the " " icon to return to the previous playback .



General setup interface1



General setup interface2

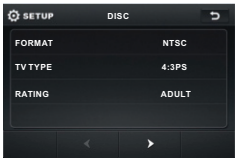
ADJUSTABLE ITEMS:

ANIMATION
In **RADIO** mode, you can change the playing time of animation among of "OFF, 10S, 30S, 1M,90S, 2M, 3M and 4M ".
Note:
Please set the playing time of the animation to **" 10S "** for the first, when you turn the unit on .

KEY BEEP : ON or OFF.

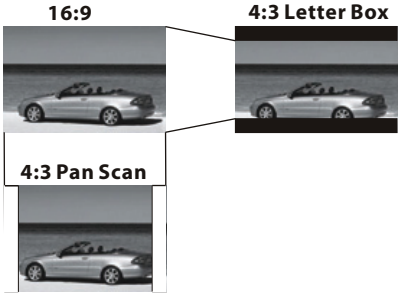
Basic Operation

Disc setup as follow:



FORMAT
This player is capable of playing discs recorded in either PAL or NTSC formats. Make the selection based on whether you are connecting the unit to a PAL TV or an NTSC TV. You can also set the unit to AUTO (auto select). The disadvantage to autoselect is that each time you turn the unit on it checks to see what kind of monitor is connected, which causes a small delay and some flickering of the display image which you may find unpleasant.

TV TYPE



This is to select the appropriate TV aspect (4:3 or 16:9) according to the connected TV set.
Normal/PS (For 4:3 TV)
Played back in the PAN & SCAN style. (If connected to wide-screen TV, the left and right edges are cut off.)
Normal/LB (For 4:3 TV)
Played back in LETTER BOX style. (If connected to wide-screen TV, black bands appear at top and bottom of the screen.)
Wide (For 16:9 TV)
Select when a wide-screen TV set is connected.

RATING
Select to turn Parental Control on or off. The factory default password is **0000**. (The password must be used to make changes to the Parental Control menu below .)
Key in **"0000"** and then turn to rating then you can setting as follow:
KID SAFE -> G -> PG -> PG-13 -> PG R -> R ->NC-17 -> ADULT

RADIO
ST/MONO: touch to select stereo or mono.

LOCAL: touch to select local or distant.

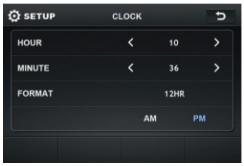
REGION: touch to select radio frequency as USA or EUROPE.

BLUETOOTH
Touch to select BT function on or off.

WALLPAPER
Touch to select wallpaper .

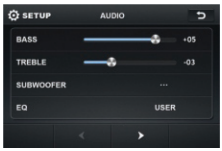
ABOUT
Touch to show the version information.

CLOCK SETUP
Touch the CLOCK to adjust the time and time format.

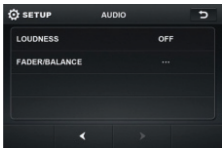


clock setup interface

AUDIO SETUP
Touch the audio to turn to audio quality adjustment.



audio setup interface1



audio setup interface2

Basic Operation

TREBLE: -7 to +7
Adjust treble level .

BASS: -7 to +7
Adjust bass level .

SUBWOOFER: touch to adjust subwoofer volume and frequency.

EQ: touch to select audio mode as follow:
USER -> JAZZ -> CLASSIC -> POP -> ROCK

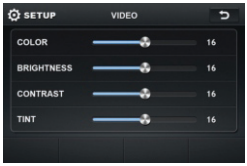
LOUDNESS: touch to select loudness effect as :OFF -> LOW -> MID -> HIGH

FADER/BALANCE:
BALANCE: R 0-10 to L 0-10

Adjust sound balance between left and right speakers .

FADE: F 0-10 to R 0-10
Adjust sound balance between front and rear speakers .

VIDEO SETUP



Video setup interface

COLOR: 0 to 32
Adjust the color for the picture-lighter or darker.

BRIGHTNESS: 0 to 32
Adjust if the picture is too bright or too dark.

CONTRAST: 0 to 32
Adjust the contrast of the bright and dark portion.

TINT: 0 to 32
Adjust the tint if the human skin color is unnatural.
-Adjustable when “NTSC “ is selected for “NTSC/PAL “ .

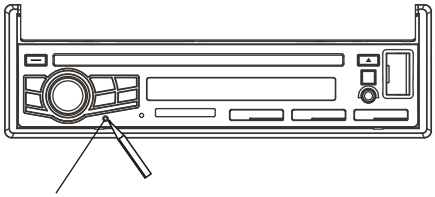
LANGUAGE
Touch to select OSD language.

ILLUMINATION COLOR
Touch to select the backlight for all buttons. Tap auto icon the backlight change automatically.

CALIBRATION
Touch the arrow as show to calibration the display.

Reset Factory Settings

RESET button is placed on the housing and must be activated with either a ballpoint pen or thin metal object.



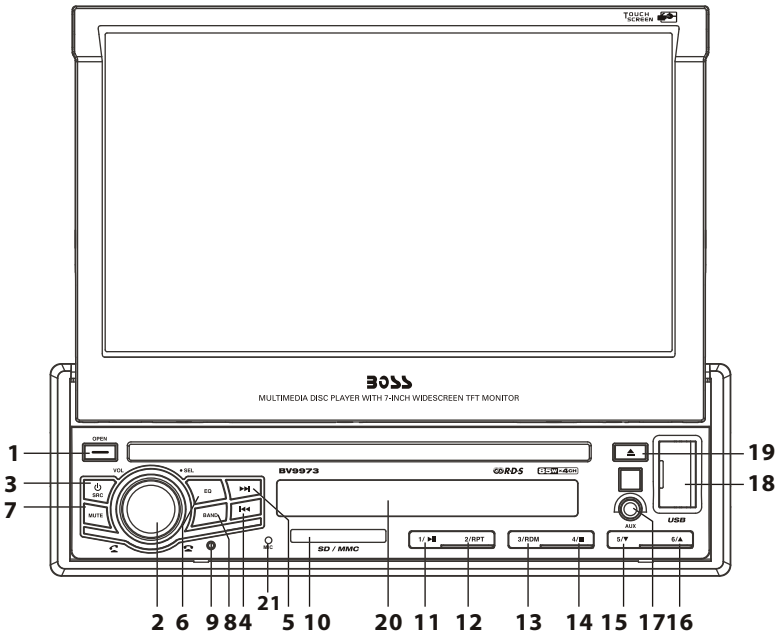
The RESET button is to be activated for the following reasons:
A. Initial installation of the unit when all wiring is completed.
B. All the function buttons do not operate.
C. Error symbol on the display.

Rear View Camera

When connecting the rear view camera the mirror image of the rear view is automatically displayed on the monitor when you change the gear to the back position.
(Note: additional monitor can not display the image.)

Control Panel

UNIT KEYS



1. OPEN BUTTON

To slide the monitor out and stand it up or into the monitor slot, press this button; To adjust the angle of the monitor, press the 5/▼ or 6/▲ to change the angle for the TFT display.

2. SEL BUTTON and VOL KNOB

In normal mode, the VOL knob is used to increase or decrease the volume.

Press the SEL(except radio mode) to switch between BASS,TREBLE, BALANCE, FADE,COLOR,RIGHTNESS, CONTRAST, TINT , BT, REG (in radio mode), PI(in radio mode), TA(in radio mode), AF(in radio mode), LOUD, SWF, EQ, TIME 12H/24H, CLOCK, BEEP,EUR/USA FREQ, ANIMATION.

After switching on the desired mode above, rotate VOL knob or press VOL+/ VOL- buttons to set it.

In radio mode, press the SEL to select MANUAL/AUTO mode, in radio manual mode to scan the frequency by rotate the VOL knob, select radio auto mode to cancel the scan function.

Control Panel

In BT mode, press the SEL to receive a call ,during talking,press the SEL to transfer audio between the Car Audio System and phone; press and hold the SEL to reject a call.

3. ⏻ (POWER On/Off)/MODE

Press it to turn on the unit, Press and hold for two seconds to switch the device off. In playback mode, Press it repeatedly to select RADIO, DISC, USB, CARD, BT, AUX and AV mode.

4/5. >>| and |<< BUTTONS

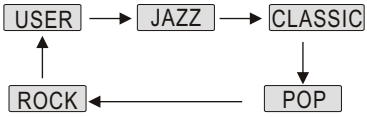
In radio mode, long pressing |<< or >>| button can automatically search down or up for an available station beginning from the current frequency; Briefly pressing |<< or >>| button can manually search down or up for a your desired station beginning from the current frequency.

In media mode, pressing |<< or >>| button can play the previous or next track; continuously and long pressing |<< or >>| button can fast backwards or forwards at the following multiple of normal speed: x2, x4, x8, x20.

6. EQ BUTTON

In any modes, touch the “EQ” range to select one of the preset sound modes: USER/JAZZ/CLASSIC/POP/ROCK .

The information will display in the monitor as follow :



7. MUTE BUTTON

Press it button to switch of the loudspeakers for a short period. The word MUTE flashes in the display. Press it again to cancel the mute function. This function can also be cancelled by rotating the VOL multifunction button.

8. BND BUTTON

In Radio mode, press it repeatedly to select the desired radio band: FM1, FM2, FM3, AM1(MW1), AM2(MW2) .

9. RESET BUTTON

Press this button to return to factory settings.

10. SD CARD SLOT

11-16. PRESET STATION MEMORY AND >II, INT, RPT, RDM BUTTON

A)In RADIO mode

Go to any preset station by pressing one of the 6preset station(1-6) ,if one of these buttons is pressed for more than 2 seconds, the stations currently being listened to will be memorized into the selected preset button.

B) In DISC/USB/SD mode
During playing, press 1/>II button to pause the current playback, press again to to continue play;

During playing, press 2/RPT button to select repeat function;

During playing, press 3/RDM button to select random function;

During DVD/VCD/CD disc playing, press 4/STOP button to stop playing and turn to home mode, during MP3/USB/SD mode, press this button to turn to previous mode, press again to turn to home mode;

17. AUXILIARY INPUT JACK
Insert an external device to this AUX jack in order to have audio output of the device through the unit.

18. USB PORT
For information about connecting a USB device, please see USB operation.

19 ⏏ (EJECT) BUTTON
Insert the disc, label side facing up, until the mechanism senses its presence and draws the disc in. Press it to eject the disc.

20. LCD Display window

21. MICROPHONE

Touch Screen Operation

RADIO OPERATION

Listening to Radio

Touch the RADIO ICON in home menu to enter the RADIO mode:

Selecting The Frequency Band

Touch the screen of **" BAND "** section repeatedly to select the band , the message will show in turn :

FM1 → **FM2** → **FM3**
↓
AM1(MW1) ← **AM2(MW2)**

When an FM stereo broadcast is hard to receive

Press **ST/MO** button on the remote control to select the MONO or STEREO mode .

Start Searching For a Station

Manual Search

During Radio mode, briefly touch " ▶ " to increase frequency by one step of channel spacing.

Briefly touch " ◀ " to decrease frequency by one step of channel spacing.

Automatic Search

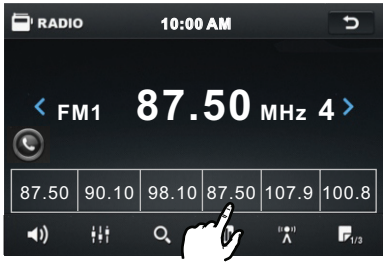
During Radio mode, touch and hold (for more than 2 seconds) either " ◀ / ▶ " ICONS to start search for a radio station automatically.

To tune in strong-signal FM Station only (LO/DX function)

In radio mode, Press LOC button on the remote control or tap icon to select select LOC/DX mode of Local and Long-distance traffic news.

Storing and Listening to a Memory Station

Setting Memory



With this system, a total of 30 stations can be stored in the memory of six buttons. Each band stores up to six preset stations. The stations might be FM1, FM2, FM3, AM1(MW1), and AM2(MW2) band.

The operation is as below :

- Store in Memory

>Select the frequency band
>Select the station
>Press and the station until it show the frequency band your select.

- Retrieve a preset station

Touch the **1-6** ranges briefly to retrieve a station which had been stored in the memory in advance the chose number is shown on display .

Touch Screen Operation

Automatic Memory Storing & Program Scanning

Automatic Preset Setup

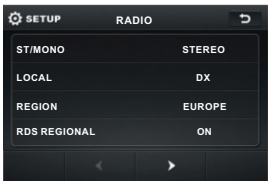
In Radio Mode, touch and keep (for more than 2 ' S) the screen of " " range to active automatic station storage.
The radio searches within the current frequency band, e.g. Fm3, for the stronger signal level until the search cycle has finished . The six strongest stations are then allocated to the corresponding storage locations .
Then the station of the first storage location is set .

Scan Function

In Radio mode, briefly touch the " " section on the touch screen , the radio briefly plays all the preset stations of the frequency band .

RDS FUNCTION

In home menu, then touch the " " ICON to enter the set mode, the message in the display :

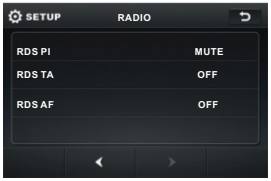


ADJUSTABLE ITEMS:

REGION SET
Touch to switch the REGION function ON and OFF.

REG FUNCTION
at certain times some stations divide up their programs into regional programs with varying content .
REG ON : the message "REG ON" will appears in the display for a few seconds .
Note :
- the display capacity is limited . It is possible that in the double display mode some segments of the display are deleted .
- the function REG ON prevents the radio from switching to alternative frequency which have a different regional program content .

REG OFF : the program identification(PI) of the regional program is ignored during the search for an alternative frequency (AF) or a program identification (PI) .



Select RDS REGIONAL to turn RDS function on or off.

PI SET
Touch to change between PI MUTE and PI SOUND .

PI MUTE / PI SOUND
(only for radio operation)
If you are in an area where two program identifications (PI) overlap, you can select the option **PI SOUND** and **PI MUTE** for playback of the sound. Alternate switching of the program identification should be avoided .

PI SOUND :
If switching nevertheless occurs the sound of another station is heard for less than one second .

Touch Screen Operation

PI MUTE :
the sound of another station is suppressed .

TA Traffic Announcement
(Priority For Traffic Information)

In Radio mode, touch the cursor button to switch the TA function ON and OFF .
When the TA function is activated, the TA symbol appears in the display .
During radio operation in one FM frequency band the search for a traffic announcement station is started automatically (TA SEEK) .
If an FM station is being received which transmits the latest traffic announcements from time to time, the TP display lights up.

When the TA function is switched on , the FM traffic automatically interrupt CD operation (the word **TRAFFIC** appears in the display).

The volume level is increased to the minimum value for the transmission of traffic announcements.
After the traffic announcements has finished, the program that was previously running is resumed.

Interruption of the TA Function:
If you would like to interrupt the current traffic announcement, touch the TA section on screen briefly . This does switch off the TA mode .

AF FUNCTION
(Alternative Frequencies)

In Radio mode, touch the cursor button to switch the AF function ON and OFF .

AF is a function that works with the help of RDS (Radio Data System) and can only be used with FM stations. The radio searches in the background for the best frequency reception of the station that has been tuned into .

Touch the AF section on touch screen or swing and keep the SEL knob in the TA/AF direction for about 2 seconds , the AF function is activated. The AF symbol appears in the display .

When the AF function has been switched on, the radio continuously tests the signal strength of the AF frequency .
The test interval for each AF frequency depends on the signal strength of the current station and varies from a few minutes in the case of weak signals.
Whenever the new AF frequency is stronger than the station that is currently tuned in , the radio switched to this frequency for a short time for a short time and the message
“NEW FREQUENCY “ is displayed for one or two seconds.

PTY FUNCTION

In Radio mode, touch screen of “PTY” range to select the Program type .

PTY Selection of the program type
besides the stations name, some FM stations also transmit information on the type of program. This information can be displayed by your car radio .

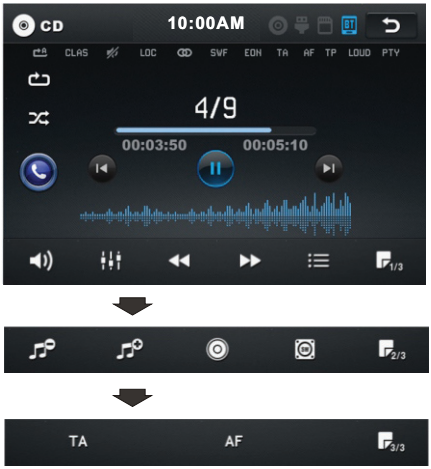
Examples of such types of program are :
SPORT NEWS POP WEATHER .....

With PTY function you can specifically select stations transmitting a particular type of program. Touch the PTY on screen repeatedly to call up the PTY selection menu. The message “PTY SEEK” then appears briefly in the display .
When PTY has been selected the radio start searching for corresponding PTY information and stops when the PTY information has been found, “NO PTY” appears in the display. If the PTY information being searched for no longer exists, the PTY function automatically switches to normal mode .

Touch Screen Operation

Media Operation

In audio play mode, the message will display as below :
(When Parking Brake is applied .)



Mute function

To select the Equalizer mode

Fast forward

Fast backward

Intro Function

To decrease the volume level

To increase the volume level

Loudness Function

Subwoofer Function

TA Turning pre-switching for traffic announcements on and off

AF Switching on and off an Alternative frequency

Play/Pause the playing

To skip the next track

To skip the previous track

Repeat Function

Random Function

Previous menu

Tap to turn to BT PHONE mode. (after pairing and connecting a mobile phone with bluetooth function).

The icons for other mode
(The same icon have the same function in each mode)

In PHOTO playing ,tap to change the photo direction.

ZOOM IN and OUT.

For page turning.

For page turning.

For page turning.

For page turning.

For page turning.

Touch Screen Operation

BASIC OPERATION

Stopping Play

Touch the ■ button on remote to stop the unit playback. press the ⏯ button to start play.

Pause (still picture)

Touch the " ⏯ " section on touch screen during playback will stop play temporary, touch it again to return the normal playback .

Rapid Forward/Rapid Reverse

During DISC playback, touch the screen of " ▶▶ / ◀◀ " range the speed of rapid forward/reverse changes according to the disc as follow:

Digital Video/VCD/CD/MP3:

Normal Playback 2x → 4x → 8x → 20x

Skipping Track

During DISC playback, Touch the ⏭ / ⏮ section on the touch screen to skip to next/back one track.

Note :

For some VCD2.0 disc (PBC-playback control), above these buttons may be unavailable .

Zoom Function

Touch the button repeatedly, the displayshow as **"zoom 2, zoom 3, zoom 4 , zoom ½, zoom 1/3, zoom 1/4 , zoom off . "**

Use the direction keys (▲ / ▼ / ◀ / ▶ on remote control to move the enlarged picture .

Note:
when the JPEG disc playback, in normal mode, you can use the cursor buttons to rotate the picture .
Press UP to invert an image .
Press DOWN to mirror an image .
Press LEFT to rotate an image to left .
Press RIGHT to rotate an image to right .

SELECTING PLAY MODES

During the Disc playback, select the "RPT, RDM, INT " to select your favour play mode.

1). REPEAT FUNCTION

FOR Digital Video :
Tap the icon or press the **RPT** button on the remote control to select REPEAT mode as follows :

CHAPTER REPEAT ON → TITLE REPEAT ON → REPEAT ALL → REPEAT OFF

FOR VCD/CD :
Tap the icon or press the **RPT** button on the remote control to select REPEAT mode as follows :

REPEAT ONE → REPEAT ALL → REPEAT OFF

FOR MP3 :
Tap the icon or press the **RPT** button on the remote control) to select REPEAT mode as follows :

REPEAT ONE → REPEAT FOLDER(or DIR) → REPEAT ALL → REPEAT OFF

2). INTRO FUNCTION

FOR CD :
Tap the icon or press the **INT** button on the remote control to play the previous 10 seconds part of each track/chapter on disc.
(Touch it again to cancel this mode)

Touch Screen Operation

FOR VCD :

Press the **INT** button on the remote control. It display will following menu as below :

SEQ PLAY → **INTRO 1**

Note: when select the **INTRO** Mode, this player to start to play the previous 15 seconds part of each track/chapter on disc. (Touch it again to cancel this mode .)

FOR Digital Video/MP3 :
For Digital Video/MP3 , press the INT button is not available .

3). RDM(RANDOM) FUNCTION

During DISC playback, touch screen of " " section (press the **RDM** button on the remote control to play in random. Each play mode the order is different . (Depend on the disc used for VCD).
Touch it again to cancel this function .

Note : in random mode, the ⏮ button is not available .

ON-SCREEN DISPLAY FUNCTION

OSD

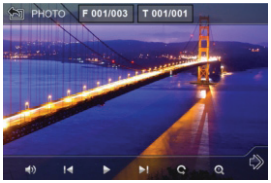
During playback, touch the screen or press the **OSD** on the remote control, it will display the following as below :

Note: touch the screen or press the OSD on the remote control again to cancel the OSD information.

1. Digital Video , when it is on, it will display the information such as:

2. Example for VCD/SVCD, when it is on, it will display the information such as:

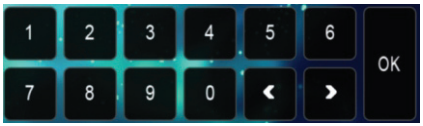
3. Example for Movie or PHOTO . When it is on, it will display the information such as:



DISC Search (GOTO)

FOR Digital Video :
Touch the screen as show or press the GOTO button on remote control;

the screen will display the following message :

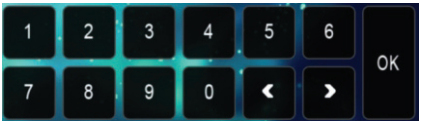


Touch the ‹ › to select the your adjustment item, then select the item your favour by touching the numberic buttons , then touch the **OK** button to confirm .

Touch Screen Operation

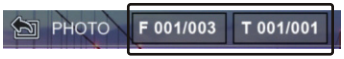
FOR VCD (With PBC OFF) :
Touch the screen as show or press the GOTO button on remote control;

the screen will display the following message :

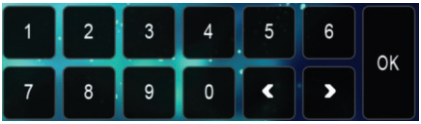


Touch the to select the your adjustment item, then select the item your favour by touching the numberic buttons , then touch the **OK** button to confirm .

For Movie/Photo:
Touch the screen as show or press the GOTO button on remote control;



the screen will display the following message :



Touch the to select the your adjustment item, then select the item your favour by touching the numberic buttons , then touch the **OK** button to confirm .

Touch Screen Operation

Digital Video Special Function

1. Multi-subtitle Language Function (for Digital Video Only)

During Digital Video playback. Touch the OFF icon on touch screen(or press the **SUBT** on the remote) .

Each time the button is pressed or touch, number of the subtitle language changes in sequential order.

Notes:
- The language number is different according to the disc.
- Some discs only contain one subtitle language.
- When no different subtitle language are recorded, **"INVALID KEY"** will be displayed at screen left top corner.

2. Multi-Audio Language Function

For Digital Video:
During Digital Video playback , touch the 1/2 icon on touch screen (or press the **LANG** on the remote .) Each time the button is pressed or touch , number of the audio soundtrack language changes on sequential order.

Notes:
- The language number is different according to the disc.
- Some disc only contain one language soundtrack
- When no different language soundtrack are recorded **"INVALID KEY"** will be display at screen left top corner.

For VCD/CD:
during playback, touch the **AUDIO** section of the touch screen or Press **AUDIO** on the remote . It is possible to switch the sound between monaural and stereo sound.

3. Multi-Angle Function (for Digital Video Only)

During Digital Video playback, touch the ANG OFF icon on the touch screen . Each time the button is pressed , the number of the angel changes in sequential order .

Notes:
- The angle number is different according to the disc.
- The function only work for disc having scenes recorded at different angles.
- When no different angle are recorded, **"INVALID KEY"** will be displayed at screen left top corner.

4. Title Menu Function

For Digital Video:
If the Digital Video has multiple titles recorded on the disc. It can select preferred title from the title menu to start playback.
- During Digital Video playback, press TITLE button on the remote .The title menu is display.
- Select preferred title by the cursor button and confirmed by press the ENTER button .

For VCD:
Press **TITLE/PBC** button on the remote control while the disc is playing, you can switch between "PBC ON"and "PBC off" mode.

Touch Screen Operation

5. A-B Repeat (for Digital Video and VCD)

Press the **A-B** button if you want to repeat a specific segment on a disc that you define:

1. Press the **A-B** button at a point (A) where you want it to be the start point of the repeat segment. Press the **A-B** button again at a point (B) where you want it to be the terminal point of the repeat segment. Then it will play the segment repeatedly.

2. To cancel the A-B repeat mode and resume normal playback, press the **A-B** button for the third time.

Note:

During DVD playback, points A and B can be selected from different chapters.

6. Program Playback (for Digital Video and VCD)

It allows you to enter the order in which you want some chapters/tracks in DVD/VCD to play.

1 During playback, press the PROG button to enter a program interface as follows:

Program interface for DVD

2 Use the direction buttons to move cursor onto the desired place for inputting the sequence number.

3 Use the number button to input desired sequence number of title/ chapter/track with desired sequence.

4 After input your favour, press >II on remote or use the direction buttons to select play and then press OK on remote to play the programmed titles/ chapters/tracks in programmed order.

* Tap the display or press stop button to exit the PROG .

* During VCD playback, if it is in PBC ON mode, at the same time of entering the state of program playback, it turns off PBC mode.

7. Display still frame step by step (for Digital Video and VCD)

If the unit is currently playing video, press the STEP button consecutively to display still frame step by step.

Press the PLAY button to resume normal playback.

8.Playback with Slow Speed

During video playback , press the LOC/SLOW button to execute the Slow Forward function.

Press the PLAY button to resume normal playback.

Touch Screen Operation

Bluetooth Operation

1. Pairing and Connecting

Prior to using the bluetooth device named Boss Audio as a hands-free system for a bluetooth-enabled mobile phone for the first time, you must pair and connect them as follows:

* Prior to pairing and connecting, when displaying No Video interface of radio, CD, AUX IN or bluetooth music, the logo BT flashes in the touch screen.

* During operation of the device named Boss Audio as a hands-free system for a bluetooth- enabled mobile phone, place the bluetooth-enabled mobile phone no more than 3 meters from the head unit;

  Switch on the bluetooth mode of your mobile phone; then select the item to find a bluetooth device and enter it; When it finds the bluetooth device of the car A/V system, the name Boss Audio will be displayed, select it and enter it; then it will show an interface that asks you to input a password, input 8888 and enter it; then it will pair and connect with the bluetooth device Boss Audio of the car A/V system, Confirm it, then the frame of the BT logo will light all the time.

* When finishing pairing and connecting, the audio of the mobile phone transfers to the car audio system whenever a call is made or received or the mobile phone plays music.

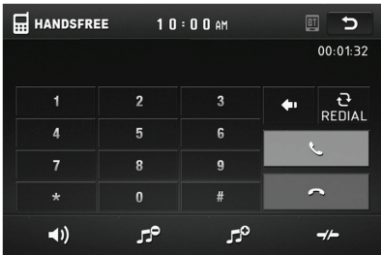
2. BLUETOOTH PHONE

1) Make a call

(1) Dial with mobile phone directly;

(2)Dial with BT Phone, remote control, or on touch screen;

a. Touch the HAMDS-FREE icon in home menu or touch the icon during playing to turn to BT PHONE interface as follows:



: Same as MUTE button.

& : Same as VOL+ and VOL- or VOL knob.

: Tap to do disconnection.

Touch Screen Operation

b. Use the number icons or buttons to input your desired phone number;

* When inputting a wrong digit, use icon or < button to delete it.

c. After finishing inputting, touch icon or press button on control panel to dial out.

2) Redial last dialed phone number
Touch REDIAL icon or long press redial button on remote control to dial out the last dialed phone number.

3) Answer a call
During an incoming call, the incoming telephone number displays in the the BT PHONE interface. If you want to receive it, touch icon or press button on remote control; if you want to reject it, touch icon or press button on remote control.

4) Ending a call
When ending a call, touch icon or use button.

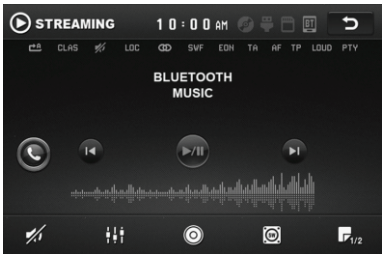
5) Switch the audio between the unit and your device
During phone talking using the bluetooth hands-free system of the car A/V system, touch icon or press button on remote control to switch the audio between the unit and your device.

6) Adjusting the volume during a call
During phone talking, use and icon or VOL knob or VOL+ and VOL- buttons to adjust volume level; use icon or MUTE button to mute sound.

* *** / # icons and buttons**
they perform as * / # buttons on mobile phone.

3. BLUETOOTH MUSIC

1) Touch STREAMING in home menu or pressing SOURCE button can pop up BT MUSIC interface as follows:



Touch Screen Operation

Mute function

To select the Equalizer mode

To decrease the volume level

To increase the volume level

Loudness Function

Subwoofer Function

Turning pre-switching for traffic announcements on and off

Switching on and and off an Alternative frequency

Play/Pause the playing

To skip the next track

To skip the previous track

Tap to turn to BT PHONE mode.(after pairing and connecting a mobile phone with bluetooth function).

2) When using your mobile phone with the bluetooth function to play audio/video, if it is paired and connected to the unit, the audio of the mobile phone will change into the car A/V system.

The Boss Audio supports A2DP, which enables the user to stream audio from their device.

3) The bluetooth device of the car A/V system supports AVRCP, so these icons on the BT Music interface except BT Music and their corresponding buttons on control panel or on remote control are available for audio/video playback of your mobile phone during playback. But no fast forward/backward functions for ⏭ / ⏮ icon and ⏭ / ⏮ buttons, and the function of resume playback after pausing or stopping is available only for some mobile phone.

* If you don't want to use the bluetooth function of the car A/V system , long press SEL button to display BT, then use VOL knob or VOL+ and VOL- buttons to switch BLUETOOTH off .

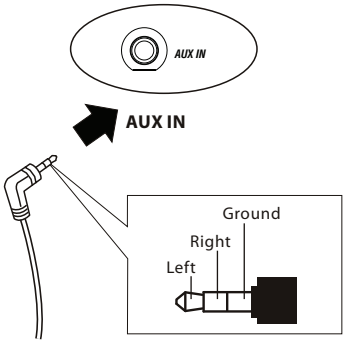
Touch Screen Operation

AUX Operation

On the front panel of this unit, there is an AUX IN jack, follow the diagram below to connect analogue replay devices(only for the Audio connect, if you want to connect the Video, please plug the RCA <Video input > on the back of the unit .) . Use this jack to replay sound of other replay equipment such as Digital Video players, computers, etc. Via the loud-speakers.

1). Please connect the external device with stereo jack (3.5mm)plug the Aux in socket .

AUX IN JACK FRONT PANEL



2). In radio mode, touch the screen of " ↩ " ICON to enter the main menu, touch the " AUX " ICON to enter the AUX IN mode .

AUX INTERFACE 1

AUX INTERFACE 2

3). You now hear the sound from the external device played back through the loudspeakers .

The function of the icons as follow:

Tap to mute the sound.

Tap to select EQ as the same on the remote control.

Tap to turn LOUD on or off.

Tap to select subwoofer frequency.

Tap to adjust audio volume.

TA — Turning pre-switching for traffic announcements on and off

AF — Switching on and off an Alternative frequency

Tap to turn to BT PHONE mode. (after pairing and connecting a mobile phone with bluetooth function).

Touch Screen Operation

AV Operation

Please plug the RCA <Video input > on the back of the unit .

Touch the AV IN icon to enter the AV IN mode.

AV INTERFACE 1

AV INTERFACE 2

As the interface show, here is only the audio output, now tap the icon, the picture of the auxiliary input video show on the display and tap the display again to turn to audio mode.

Now you can watch the video from your External video equipment such as Digital Video players, computers, etc.

The function of the icons as follow:

Tap to mute the sound.

Tap to select EQ as the same on the remote control.

Tap to turn LOUD on or off.

Tap to select subwoofer frequency.

Tap to adjust audio volume.

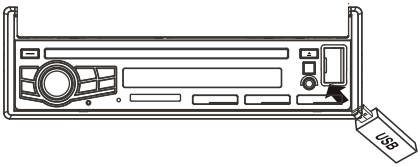
Tap to turn to BT PHONE mode. (after pairing and connecting a mobile phone with bluetooth function).

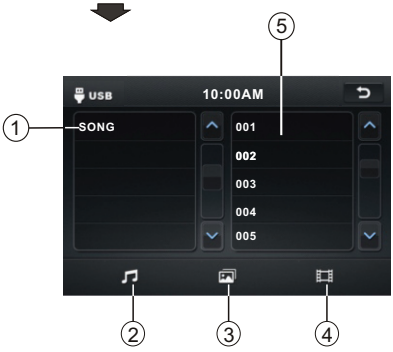
Note: To ensure safety while driving and to comply with lows, drivers should not watch video or operate the video device while driving.

Touch Screen Operation

USB OPERATION

Following the diagram below, connect your USB device to the front panel USB port . If it is properly connected, the device will be mounted and start playing automatically.





1 Current type (highlighted bar) .

2 Audio play mode select.

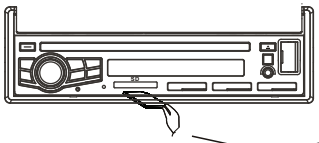
3 Picture play mode select.

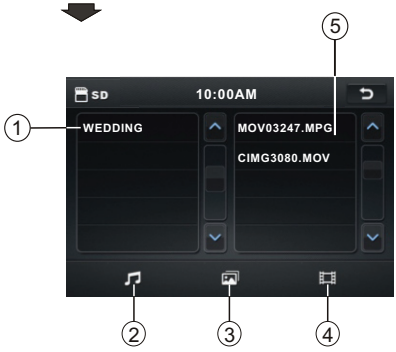
4 Movie play mode select,

5 Current play track .

Card OPERATION

The unit can support playback MP3/WMA/ JPEG/MP4 and Divx format which are stored on SD memory cards .
Please read the following instructions before you start using a memory card .
Inserting the card as follow:





1 Current type (highlighted bar) .

2 Audio play mode select.

3 Picture play mode select.

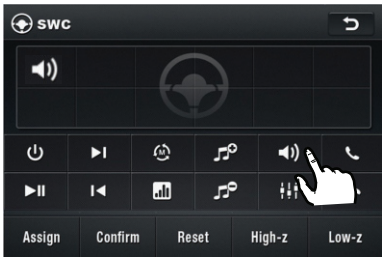
4 Movie play mode select,

5 Current play track .

Touch Screen Operation

STEERING WHEEL CONTROL

Touch the SWC icon as follow to turn to steering wheel control .



During setting, touch the icon to turn to home menu.

There are 2 KEY for total 12 buttons to save, first, tap Assign to open function save, then select button 1 in KEY 1 on steering wheel and tap the icon, the icon show in button 1 position then touch Confirm, final turn the unit on again, the function will save in button 1 of KEY 1.

The function of the icons as follow:

Assign Touch to begin function save.

Confirm After selection touch to confirm operation.

Reset Touch this icon to cancel the input and resume load.

High-z When electric resistance is too low, touch this icon to increase.

Low-z When electric resistance is too high, touch this icon to reduce.

Parental Control

*** Parental Control**

Q: After inserting a Digital Video disc into the disc slot, if a dialogue box pops up and asks you to input a password, what should you do ?

A: The playing disc is locked by a rating level of parental control. If the current rating level of parental control of the Digital Video player is lower than the one of current disc, you must input the correct password of parental control to unlock the parental control and enter a rating level equal to or higher than one of the current disc in order to play the disc.

* For factory preset password of parental control of Digital Video player, please see the part of Media Setup Menu.

Appendix: Parental Control

Parental Control function of a Digital Video player can control playback of movie ratings on a disc. You can set the Digital Video player to be a certain rating level of parental control using the Media Setup Menu. If the rating level of parental control of a disc is higher than the one of the Digital Video player, the Digital Video player cannot play the disc.

The Digital Video movie can be designed so that the Digital Video player can play different versions of content of a particular movie according to the different rating levels of parental control. Depending on the Digital Video features, the scenes that are not suitable for children will be cleared or replaced by suitable scenes automatically.

The rating levels of Parental Control are as follows:

	Unlock
1	Kid Safe
2	G
3	PG
4	PG 13
5	PG R
6	R
7	NC 17
8	Adult

Region Code for DVD

*** Region Code**

If you insert a disc into the disc slot and REGION ERROR is displayed, the car multi-media system can not play the disc. The reason is that the region codes of the car multi-media system and the used disc do not match each other.

Appendix: Region code of Digital Video

Motion Picture Association of America (MPAA) divided the world into 6 regions, and gave every region a region code for locking and unlocking Digital Video playback.

Basically, a coded Digital Video player can play only the discs if its region code is the same as the code of the Digital Video player. Otherwise, it cannot play the disc.

Please note that only the Digital Video discs and Digital Video players produced by the 8 biggest film-making companies of America impose this restriction. The Digital Video discs and Digital Video players not produced by the 8 biggest film-making companies of America are not restricted by the rule of region code. Generally, they are called Free Region Code or Full Region Code.

The problems caused by area code inconsistency has motivated the production of unlocked version Digital Video players and recodable Digital Video players .

Region codes and the countries or areas represented by region codes are as follows:

Region 1: America, Canada, East-Pacific Inlands;
Region 2: Japan, West Europe, North Europe, Egypt, South Africa, Middle East;
Region 3: South-east Asian countries include Taiwan, Hong Kong, South Korea, Thailand, indonesia, etc.;
Region 4: Australia, New Zealand, Central South America, South Pacific Inlands;
Region 5: Russia, Mongolia, Indian Peninsula, Middle Asia, East Europe, North Korea, North Africa, North-west Asia etc.;
Region 6: China mainland.

The 8 biggest film-making companies of America are as follows:

1. WarnerBros;
2. Columbia;
3. 20thCenturyFOX;
4. Paramount;
5. Universal;
6. UA(UnitedArtist);
7. MGM(MetroDogwynMayer);
8. WaltDisney

Specification

General :

Supply Voltage:	12V DC (11V-15V)	
Current Consumption:	Less than10 A	
Signal System:	Compositive video 1.0Vp-p 75Ω	
Discs Played:	(1)DIGITAL-VIDEO Disc	
	5"(12 cm) single-sided, single-layer	
	5"(12 cm) single-sided, double-layer	
	(2)Compact Disc (CD-DA, VIDEO CD)	
	5"(12cm) disc	
Audio Signal Output:	2ch&4ch line out	
Characteristics:	(1)Frequency Response	20 Hz - 20 KHz
	(2)S/N Ratio	90 dB (JIS)
	(3)Wow and Flutter	Below measurable limits

RADIO Section:

	For 2 Bands (Europe) FM	For 2 Bands (U.S.A.) FM
Frequency Coverage:	87.5 to108 Mhz	87.5 to107.9 Mhz
IF:	10.7 MHz	10.7 MHz
Sensitivity (S/N = 30 dB):	15 dBu	15dBu
	MW	AM
Frequency Coverage:	522 to1620 KHz	530 to1710 KHz
IF:	450 KHz	450 KHz
Sensitivity (S/N = 20 dB):	40 dBu	40 dBu

TFT Monitor:

Monitor Screen Size:	7 Inch Wide
Color System:	NTSC/PAL

BLUETOOTH:

Bluetooth specification:	V1.2 Class 2
Bluetooth profile supported:	Headset, Handsfree and A2DP & AVRCP profiles
Range of frequency:	2.4GHz Spectrum

NOTE:

Specifications and design are subject to modification, without notice, due to improvements in technology.

Troubleshooting

Before going through the check list, check wiring connection. If any of the problems persist after check list has been made, consult your nearest service dealer.

SYMPTOM	CAUSE	SOLUTION
No power	The car ignition switch is not on	If the power supply is properly connected to the car accessory terminal,switch the ignition key to "ACC"
	The fuse is blown	Replace the fuse
Disc can not be loaded or ejected	Presence of disc inside the player.	Remove the disc in the player, then put a new one
	Inserting the disc in reverse direction	Insert the compact disc with the label facing upward
	The disc is extremely dirty or defective	Clean the disc or try to play a new one
	Temperature inside the car is too high	Cool off or until the ambient temperature return to normal
Video/image appears black-white	The color system is set incorrectly	Please switch to correct color system from menu
No video/image appears	The unit is not connected to the parking brake detection switch	Make proper connection according to“wire connection”
	The parking brake is not engaged	For safety reasons no video/ images are displayed while the vehicle is moving. Engaging the parking brake will cause images to be displayed.
No color in picture	The disc format is not according to the TV-set used (PAL/NTSC)	Please choose a proper color system.
JPEG disc can not be played back	No JPEG files are recorded on the disc.	Change the disc
	JPEG files are not recorded in a compliant format	Change the disc Record JPEG files using a compliant application
The operation keys do not work	The built-in microcomputer is not operating properly due to noise	Press the RESET button. Front panel is not properly fixed into its place
The radio does not work	The antenna cable is not connected	Insert the antenna cable firmly
	The signals are too weak	Select a station manually